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## Update on the Chemistry Roadmap for Research Infrastructures

Switzerland is very competitive in the field of research and innovation. It is also among the countries with the highest spending on R&D in relation to their gross domestic product. The private sector accounts for more than two-thirds of Swiss R&D expenditure, which currently amounts to over 3 percent of GDP or around CHF 22 billion. Public research funding hinges mainly on the proactive work of researchers, the principle of competition and international cooperation.

The Swiss Roadmap for Research Infrastructures is a report on the status and development of national and international research infrastructures. It is updated by State Secretariat for Education, Research and Innovation (SERI) every four years. The discipline-specific Thematic Roadmaps serve as a basis for this process leading to the Swiss Roadmap for Research Infrastructures for the ERI Dispatch. Based on a mandate by SERI, SCNAT and the scientific communities are now working on an Update of the Thematic Roadmaps – including the Chemistry Roadmap – by the end of 2024 to serve as basis for the process leading to the Swiss Roadmap for Research Infrastructures 2027 for the ERI Dispatch 2029–2032.

### Overview

The State Secretariat for Education, Research and Innovation (SERI) periodically prepares a report – the Swiss Roadmap – on the status and development of national research infrastructures as well as international research infrastructures and internationally coordinated research infrastructure networks that Switzerland takes part in. Roadmap reports have been published every four years since 2011 and are used to prepare the corresponding ERI Dispatch (Figure 1). SERI takes the following into account when preparing each Roadmap report:

- Development priorities of fields of expertise and disciplines in Switzerland;
- Corresponding development priorities of the ETH Domain and higher education institutions in Switzerland;
- Switzerland's duties under international agreements
- Developments, particularly in the European research and innovation area, with regard to establishing and operating internationally coordinated research infrastructures
- Any requests for funding of research infrastructures are made within the framework of periodic ERI dispatches (Art. 41 RIPA and Art. 55 RIPO).



Figure 1. Schematic representation of the process of the Swiss Roadmap for Research Infrastructures with special emphasis on the preparatory phase assigned to SCNAT.

SERI prepares the Swiss Roadmap in collaboration with the ETH Board, the Swiss Conference of Rectors of Higher Education Institutions (swissuniversities), the Swiss National Science Foundation (SNSF) and the Swiss Academies of Arts and Sciences a+.

### Swiss Roadmap 2027

The 2027 Swiss Roadmap for Research Infrastructures will provide a general overview of newly planned research infrastructures and will be used to prepare the ERI Dispatch for 2029–2032. At the same time, the report contains updated information on infrastructures that were mentioned in the previous Roadmap reports and still require continued funding.

### Thematic Roadmaps

The preparatory phase of the 2027 roadmap process began in 2024: under a SERI mandate, the Swiss Academy of Sciences (SCNAT) is currently updating the seven discipline-specific thematic roadmaps for research infrastructures within the following scientific communities:

- Biology
- Chemistry
- Geosciences
- Particle physics
- Astronomy
- Photon Science
- Neutron Science

The Thematic Roadmaps are intended to inform decision-makers (*i.e.* university management) of research infrastructure needs of the communities and thus facilitate selection and prioritisation.

### Survey Update on the Chemistry Roadmap for Research Infrastructure

With a survey, the Platform Chemistry of the SCNAT likes to receive feedback on the proposed **Update on the Chemistry Roadmap for Research Infrastructures** from PIs from all fields of chemistry in Switzerland. Please provide your input before Oct 6, 2024:



<https://chem.scnat.ch/de/id/NS3y3>

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